Luis Angel Guerrero Hoyos

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About Me

Luis Angel is a Sc.M student in the CEE Department at the University of Washington. Holds a Sc.B degree in Geological Engineering from the Universidad Nacional de Colombia, with 5+ years of industry experience. Passionate about geospatial data, GIS, and remote sensing, he excels in both autonomous and team-based learning environments. With outstanding interpersonal, written, and communication skills, he is adaptable to change and committed to continuous improvement. His creative and innovative mindset is focused on problem-solving, particularly within the realms of geospatial analysis, data engineering, geophysics, geotechnical engineering, and risk management.

Education

Master of Science in Civil Engineering
University of Washington
May 2025

Bachelor of Science in Geological Engineering
Universidad Nacional de Colombia
May 2019

Experience

University of Washington

Research Assistant and Scientist
August 2023 - Present

- Investigating the geospatial relationships between earthquake-induced landslides and their reactivations.
- Interaction with geospatial data types, both rasters (GeoTIFF) and vectors (GeoJSON, geopackage) and satellite imagery.

Hexagon Geospatial

Geotechnical Monitoring Analyst
July 2021 - August 2023

- InSAR data analysis and management from ground-based georadars.
- Report instable areas to the customer after the analysis for their decision-making.

South32

Geological Engineer
June 2019 - August 2019

- Managemement of GIS databases of drilling samples.
- Drilling samples data entry.
- Plan, excecute and supervise drillings.

Skills

- **Programming Languages:** Python, Matlab
- **Frameworks & Libraries:** Geopandas, Rasterio, Xarray, Gdal
- **Tools:** Git, QGIS, ArcGIS, inSAR
- **Databases:** SQL, PowerBI

Certifications

- **InSAR and RAR Radar Monitoring** - University of Arizona, December 2020

Languages

- English (Fluent)
- Spanish (Native)